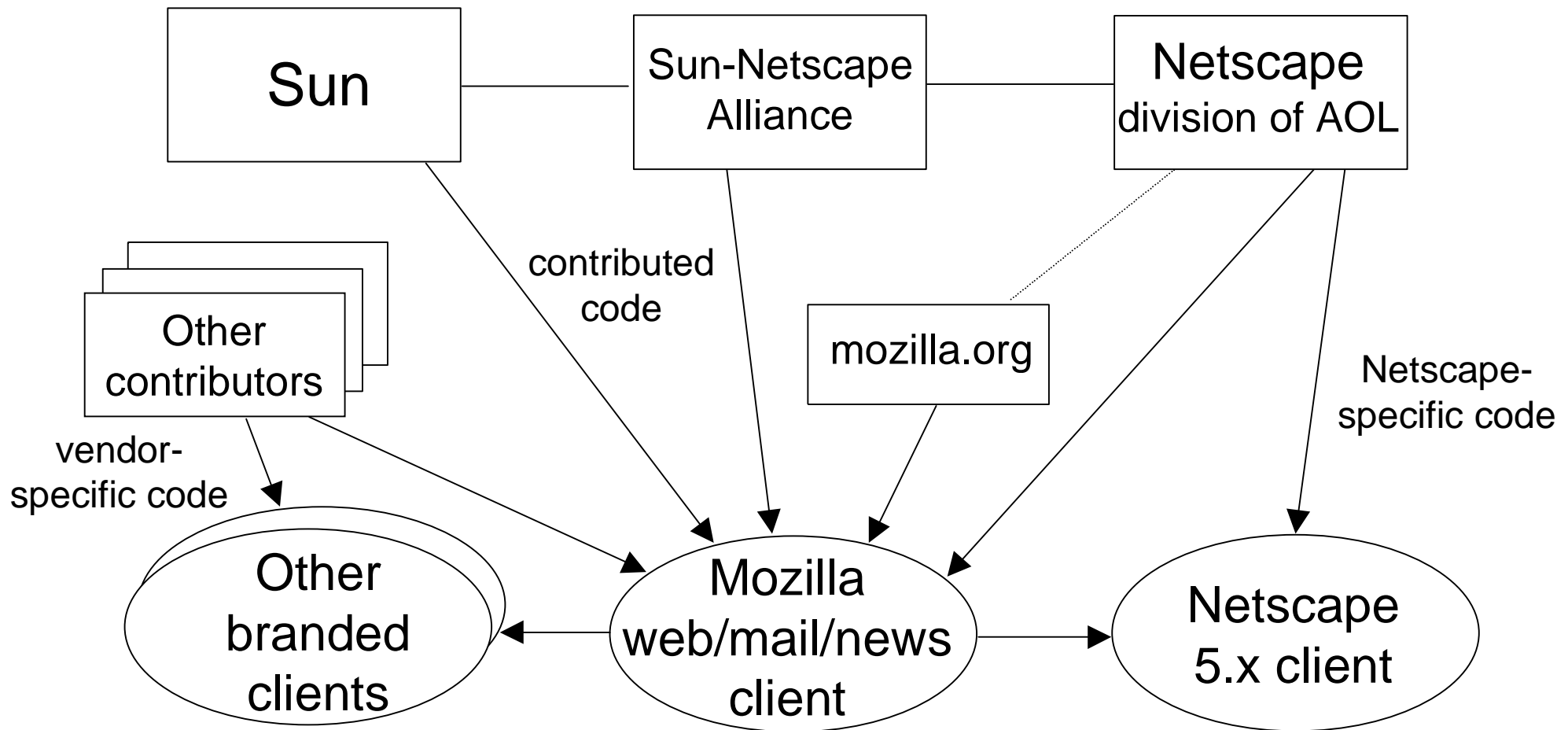


Open Source PKI Source Code for the Mozilla Internet Client

Frank Hecker
hecker@mozilla.org
frank@collab.net
301-953-2898

The Mozilla open source project



PKI/Security Code for Mozilla

- „ Recent relaxation of U.S. export regulations means mozilla.org can now host crypto code
- „ Sun/Netscape Alliance is releasing code for security and PKI functions as open source
 - code originally from Netscape security library
- „ What this means
 - others can directly participate in development of PKI functionality in Mozilla, Netscape 5.x, other spinoffs
 - others can reuse code for other applications, products

More details on the released code

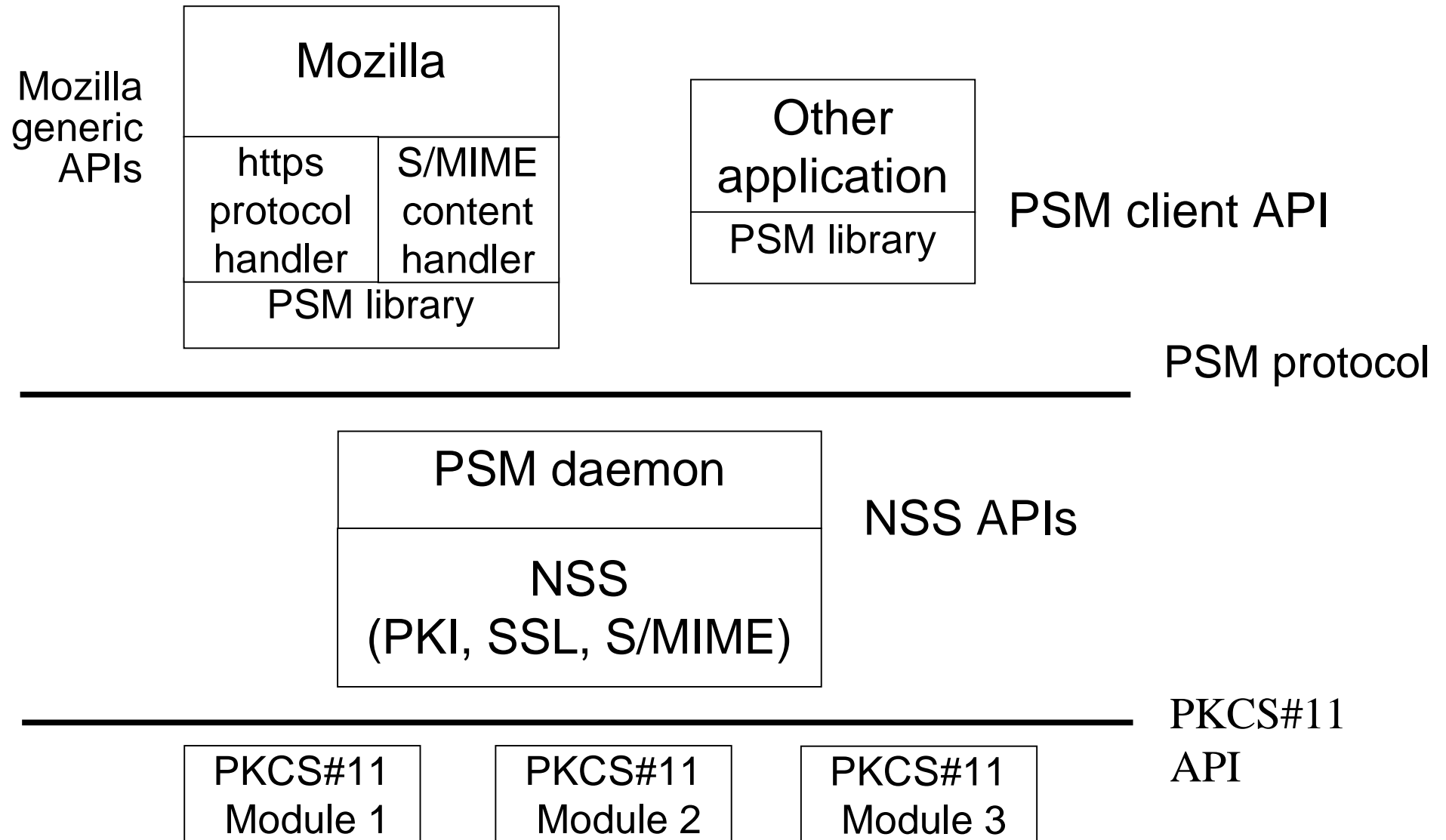
" What is being released

- Network Security Services (NSS)
 - " cross-platform library to provide key and certificate handling/processing, SSL support, S/MIME support
- Personal Security Manager (PSM)
 - " cross-platform library/daemon to provide NSS services to multiple desktop applications: Mozilla, Netscape client, etc.

" What is *not* being released

- core cryptographic module with RSA-licensed code
- but PSM/NSS can use third-party PKCS#11 modules

Architecture of PSM/NSS



PSM/NSS Functionality

- " Currently supports
 - SSLv3, S/MIMEv2 (not yet integrated into Mozilla)
 - dual key operation using standard extensions
 - CRMF/CMMF (including private key archival)
 - OCSP
- " Projects for future (by Sun/Netscape or others)
 - complete set of TLS 1.0 ciphersuites
 - S/MIMEv3
 - bridge CA support

Future Possibilities

- „ Enhance core PSM/NSS capabilities
 - anyone welcome to contribute code to [mozilla.org](https://www.mozilla.org)
- „ Create third-party extensions to PSM/NSS
 - add-ons can be open source or proprietary
- „ Provide alternatives to PSM/NSS for Mozilla
 - use Mozilla protocol handler interface for SSL/TLS
 - use content type handler interface for S/MIME
 - can hook into third-party security/PKI products to provide SSL, S/MIME, PKI functions

For More Information

- " General questions:
 - <http://www.mozilla.org/crypto-faq.html>
- " Detailed documentation and (soon) source code
 - <http://www.mozilla.org/projects/security/pki>
- " Online discussions
 - <news://news.mozilla.org/netscape.public.mozilla.crypto>